

IN THE CLAIMS

1-41. (canceled)

42. (currently amended) A process for the production of a durable photocatalytically active coated glass which comprises depositing a photocatalytically active titanium oxide layer on the surface of a glass ~~substrate~~ ribbon formed during a float glass production process, ~~a photocatalytically active titanium oxide~~ said layer having a thickness of ~~less than 40~~ 30 nm or less and a photoactivity of greater than $5 \times 10^{-3} \text{ cm}^{-1} \text{ min}^{-1}$, by contacting the surface of the ~~substrate, ribbon~~ which is at a temperature in the range 645°C to 720°C, with a fluid gaseous mixture containing comprising a source of titanium while the ribbon is at a temperature of from 625° to 720° C.

43. (currently amended) A process as claimed in claim 42 wherein the ~~substrate~~ ribbon is at a temperature in the range 670°C to 720°C.

44. (cancelled)

45. (currently amended) A process as claimed in claim 42 wherein the ~~fluid mixture~~ is a gaseous mixture comprising comprises titanium tetraethoxide as the source of titanium.

46. (currently amended) A process as claimed in claim 42 wherein the ~~fluid~~ gaseous mixture comprises titanium chloride as the source of titanium and an ester other than a methyl ester.

47. (previously presented) A process for the production of a photocatalytically active coated substrate which comprises depositing a titanium oxide coating having a thickness of less than 40 nm on a substrate by contacting a surface of the substrate with a fluid mixture comprising titanium chloride and an ester other than a methyl ester.

48. (previously presented) A process as claimed in claim 47 wherein the surface of the substrate is contacted with the fluid mixture when the substrate is at a temperature in the range 600°C to 750°C.
49. (previously presented) A process as claimed in claim 47 wherein the ester comprises an alkyl ester having an alkyl group with a β hydrogen.
50. (previously presented) A process as claimed in claim 47 wherein the ester comprises a carboxylate ester.
51. (previously presented) A process as claimed in claim 47 wherein the ester is an alkyl ester having a C₂ to C₄ alkyl group.
52. (previously presented) A process as claimed in claim 51 wherein the ester comprises an ethyl ester.
53. (previously presented) A process as claimed in claim 52 wherein the ester comprises ethyl acetate.
54. (previously presented) A process as claimed in claimed in claims 47 wherein the ester is the only source of oxygen in the fluid mixture.
- 55-57. (cancelled)
58. (previously presented) A process as claimed in claim 42 wherein the process is performed at substantially atmospheric pressure.